

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L17	213	473/151	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2011/01/14 12:16
L18	120	473/152	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2011/01/14 12:16
L19	982	473/351	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2011/01/14 12:16
L20	5898	(golf ball) (image)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:17
L21	1	(golf ball) (image) (rotary indexer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:17
L22	1137	(golf ball) (image) (rotating)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:18
L23	124	(golf ball) (image) (rotating) (motor) (vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:18

L25	317	(golf ball) (image) (rotating) (motor) (arms)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:18
L26	147	(golf ball) (image) (rotating) (motor) (transferring)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:19
L27	89	I17 I20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:19
L28	1	I17 I21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:19
L29	24	I17 I22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:19
L30	1	I17 I23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:19
L32	4	I17 I25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:19
L33	7	I17 I26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:19

L34	1	I18 I26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:19
L35	4	I18 I25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:19
L38	19	I18 I22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:19
L40	58	I18 I20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:19
L41	89	I17 I20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:20
L42	1	I17 I21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:20
L43	24	I17 I22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:20
L44	1	I17 I23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:20

L46	4	I17 I25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:20
L47	7	I17 I26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2011/01/14 12:20

**EAST Search History (I nterference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L48	0	A method of orienting a spherical object comprising acquiring an image of a spherical object at an imaging station analyzing the image with a first computer to determine an orientation analysis transferring the object from the imaging station to orienting stations using a transfer mechanism the transfer mechanism comprising a rotary indexer having multiple extendable vertical arms each arm having a vacuum cup for picking up holding and carrying the object to a station using vacuum suction so the object does not rotationally slip and the object remains rotationally fixed during transfer from station to station and orienting the object to a	USPAT; UPAD	AND	ON	2011/01/14 12:21

		predetermined orientation at each orienting station according to the orientation analysis wherein the orienting stations comprise first second and third stations each station having a motorized rotating object holder with a vacuum cup for receiving the object from the vacuum cup of the rotary indexer and rotating the object about a single axis the first second, and third stations collectively orienting the object by rotation about axes that are alternately perpendicular the rotating object holder being rotated on a spindle coupled to a motor				
L52	106	"I19" "I48"	USPAT; UPAD	AND	ON	2011/01/14 12:22
L53	118	"I18" "I48"	USPAT; UPAD	AND	ON	2011/01/14 12:22
L54	123	"I17" "I48"	USPAT; UPAD	AND	ON	2011/01/14 12:22

1/ 14/ 2011 12:23:32 PM

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